



(University of Choice)

**MASINDE MULIRO UNIVERSITY OF
SCIENCE AND TECHNOLOGY
(MMUST)**

MAIN CAMPUS

**UNIVERSITY EXAMINATIONS
2022/2023 ACADEMIC YEAR**

MAIN EXAM

**FOR THE DEGREE
OF
BACHELOR OF OPTOMETRY AND VISION SCIENCE**

COURSE CODE: BOV 221

COURSE TITLE: OPHTHALMOLOGY 1

DATE: 12/4/2023 **TIME:** 12.00-2.00 PM

INSTRUCTIONS TO CANDIDATES

Answer all questions

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating



SECTION A: MULTIPLE CHOICES QUESTIONS

- 1. A Phlycten is caused by?**
 - a. Endogenous allergy
 - b. Exogenous allergy
 - c. Degeneration
 - d. Staphylococcus epidermidis

- 2. Ten years old boy complains of itching. On examination, there are mucoid nodules with smooth rounded surface on the limbus, and mucous white ropy mucopurulent conjunctival discharge. What is the diagnosis?**
 - a. Trachoma
 - b. Mucopurulent conjunctivitis
 - c. Bulbar spring catarrh
 - d. Purulent conjunctivitis

- 3. Dense scar of cornea with incarceration of iris is known as?**
 - a. Adherent Leucoma
 - b. Dense leucoma
 - c. Ciliary staphyloma
 - d. Iris bombe

- 4. What is the definition of Distichiasis?**
 - a. Misdirected eyelashes
 - b. Accessory row of eyelashes
 - c. Downward drooping of upper lid
 - d. Outward protrusion of lower lid

- 5. Band shaped keratopathy is commonly caused by deposition of?**
 - a. Magnesium salt
 - b. Calcium salt
 - c. Ferrous salt
 - d. Copper salt

- 6. Irrespective of the etiology of a corneal ulcer, which drug of choice is usually prescribed broadly?**
 - a. Corticosteroids
 - b. Cycloplegics
 - c. Antibiotics
 - d. Antifungals

- 7. Give the diagnosis of the following presentations. A recurrent bilateral conjunctivitis occurring with the onset of hot weather in young boys with symptoms of burning, itching, and lacrimation with large flat topped cobble stone papillae raised areas in the palpebral conjunctiva.**

- A. Trachoma
- B. Phlyctenular conjunctivitis
- C. Mucopurulent conjunctivitis
- D. Vernal keratoconjunctivitis

- 8. Reduced Corneal sensitivity is found in which of the following condition?**
- a. Herpes simplex
 - b. Conjunctivitis
 - c. Fungal infections
 - d. Marginal keratitis
- 9. Where are Blood vessels in a trichomatous pannus seen?**
- a. Beneath the Descemet's membrane.
 - b. In the substantia propria.
 - c. Between Bowman's membrane & substantia propria.
 - d. Between Bowman's membrane & Epithelium.
- 10. What is the characteristics of a viral epidemic kerato-conjunctivitis?**
- a. Copious purulent discharge
 - b. Copious muco-purulent discharge
 - c. Excessive watery lacrimation
 - d. Mucoïd ropy white discharge
- 11. What is the color of fluorescein stain seen in a corneal ulcer?**
- a. Yellow
 - b. Blue
 - c. Green
 - d. Royal blue
- 12. Fifth nerve palsy can cause one of the following;**
- a. Ptosis
 - b. Proptosis
 - c. Neuropathic keratopathy
 - d. Lagophthalmos
- 13. Which of the following organism can penetrate intact corneal epithelium?**
- A. Strept pyogenes
 - B. Staph aureus
 - C. Pseudomonas pyocyanaea
 - D. Corynebacterium diphtheria
- 14. A 12 years old boy receiving long term treatment for spring catarrh, developed defective vision in both eyes. What is the likely cause?**
- a. Posterior subcapsular cataract
 - b. Retinopathy of prematurity
 - c. Optic neuritis

- d. Vitreous hemorrhage
- 15. A young child suffering from fever and sore throat began to complain of lacrimation. On examination, follicles were found in the lower palpebral conjunctiva with tender preauricular lymph nodes. What is the most probable diagnosis?**
- a. Trachoma
 - b. Staphylococcal conjunctivitis
 - c. Adenoviral conjunctivitis
 - d. Phlyctenular conjunctivitis
- 16. A 3 months old infant with a watering eye and on pressing the lacrimal sac cause regurgitation of mucopus material. What is the appropriate treatment?**
- a. Dacryocystorhinostomy
 - b. Probing
 - c. Probing with syringing
 - d. Massage with antibiotics up to age of 6 months
 - e. Dacryocystectomy
- 17. Patching of the eye is contraindicated in which situation?**
- a. Corneal abrasion
 - b. Bacterial corneal ulcer
 - c. Mucopurulent conjunctivitis
 - d. After glaucoma surgery
- 18. Corneal Herbert's rosettes are found in which of the following conditions?**
- a. Mucopurulent conjunctivitis
 - b. Phlyctenular keratoconjunctivitis
 - c. Active trachoma
 - d. Spring catarrh
- 19. A patient complains of maceration of skin of the lids and redness of the conjunctiva at the inner and outer canthi. Conjunctival swab is expected to show:**
- a. Staphylococcus aureus.
 - b. Streptococcus viridans.
 - c. Streptococcus pneumoniae
 - d. Morax- Axenfeld diplobacilli
- 20. What does Schirmer's test used to diagnose?**
- a. Dry eye
 - b. Infective keratitis
 - c. Watering eyes
 - d. Horner's syndrome

SECTION B: SHORT ANSWER QUESTIONS (40 Marks) ANSWER ALL QUESTIONS

1. What is the clinical presentation of squamous cell carcinoma of the lids and its management? (10Marks)
2. Give a brief description on the causes and presentation non-penetrating injuries of the eye and its management? (10Marks)
3. Name the types of the inflammatory lesions of the eyelids and management.(10Marks)
4. List the causes of epiphora and management of each. (10Marks)

SECTION C: LONG ANSWER QUESTION

1. Describe the types corneal dystrophies (10 marks)
2. Ptosis is the drooping of eyelid. What are some of the causes, way of measurement to determine the level of ptosis. (10 marks)

